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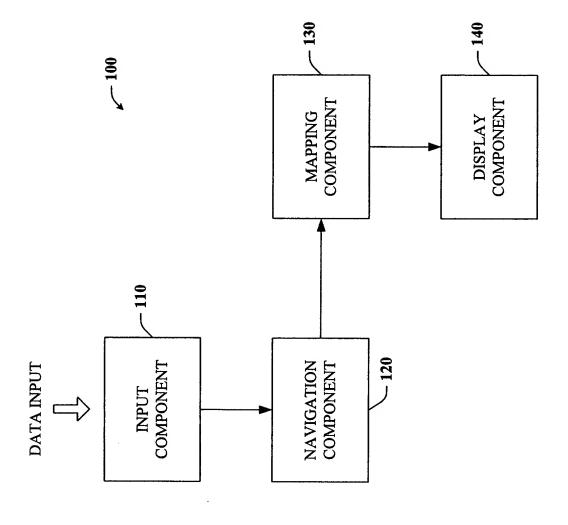


FIG. 1

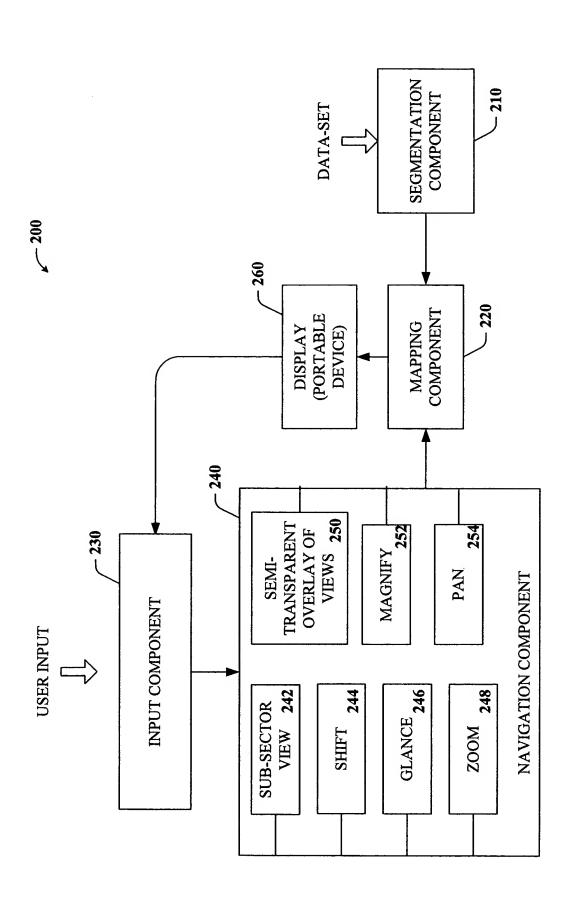
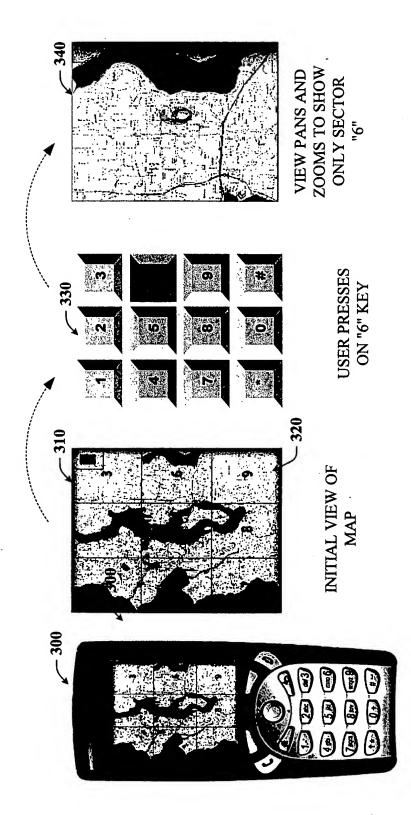
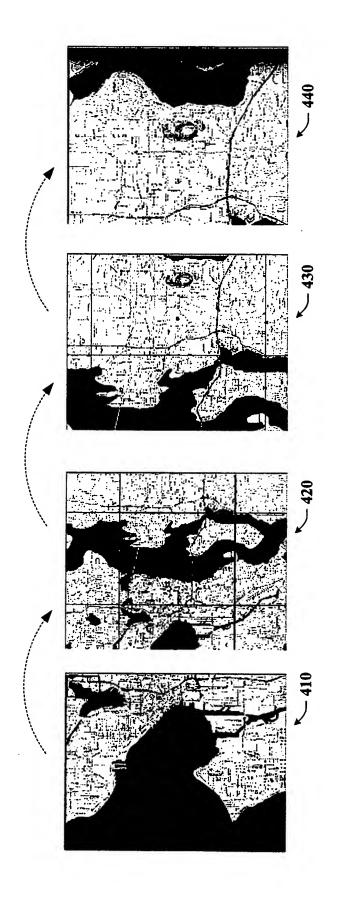


FIG. 2



EXEMPLARY PORTABLE
DEVICE WITH KEYPAD - USING
SUBJECT NAVIGATION
SYSTEM

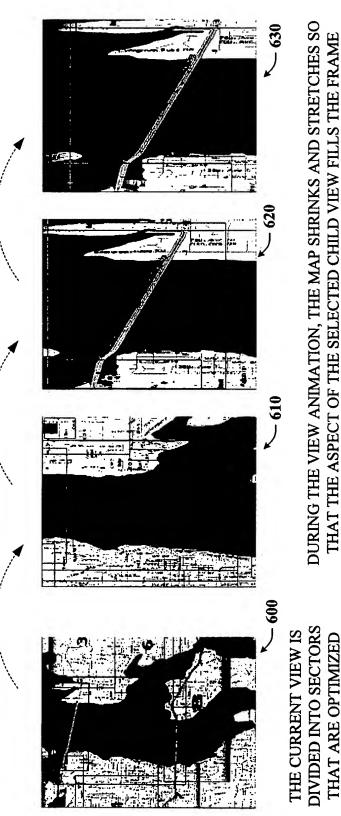
FIG. 3



VIEW ZOOMS OUT DURING PAN FROM ONE SIBLING VIEW (SECTOR 4) TO ANOTHER (SECTOR 6)

FIG. 4

AVAILABLE SECTORS



THAT THE ASPECT OF THE SELECTED CHILD VIEW FILLS THE FRAME

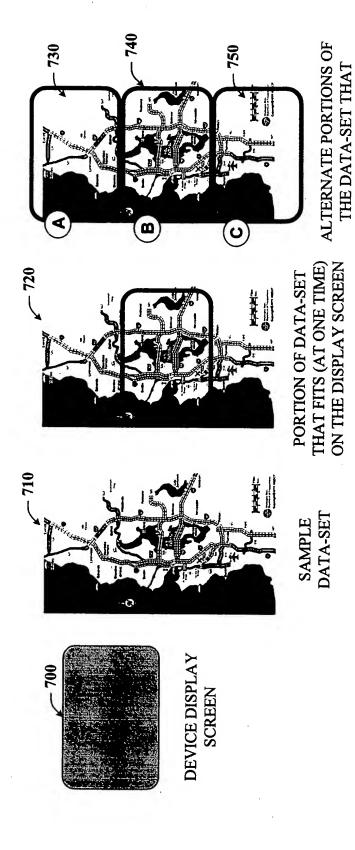
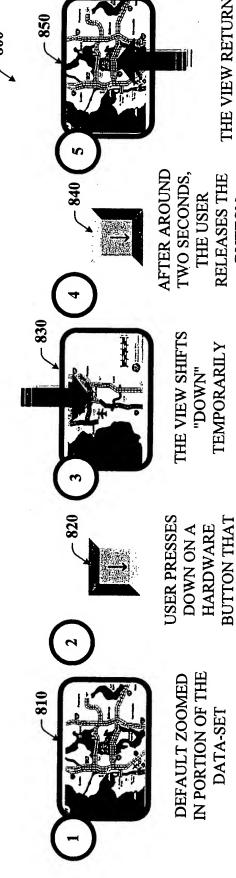


FIG. 7

CAN BE AVAILABLE FOR

VIEWING

SEQUENCE OF EVENTS THAT HAPPEN WHEN USER PRESSES-AND-HOLDS A BUTTON THAT IS ASSIGNED TO A PARTICULAR VIEW



CORRESPONDS

PREDEFINED

TOA

VIEW SHIFT

THE VIEW RETURNS CONFIGURATION "UP" TO THE ORIGINAL *FAPPING A BUTTON* CAN BE HELD FOR AND-RELEASING A OR LONG ENOUGH COMMENSURATE **BETWEEN A USER** TO DISTINGUISH (NOTE: BUTTON RELEASES THE AND HOLDING-A TIME SPAN BUTTON **BUTTON**)

SEQUENCE OF EVENTS THAT HAPPEN WHEN USER TAPS A BUTTON THAT IS ASSIGNED TO A PARTICULAR VIEW





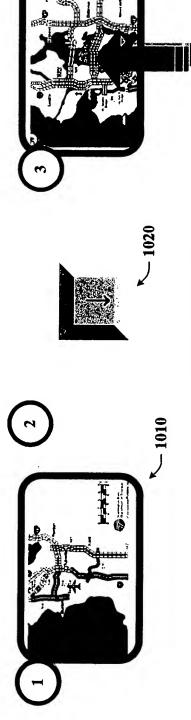


THE VIEW SHIFTS
"DOWN" TO THE NEW
CONFIGURATION

DEFAULT ZOOMED IN PORTION OF THE DATA-SET

USER TAPS (QUICKLY PRESSES AND RELEASES) A HARDWARE BUTTON THAT CORRESPONDS TO A PRE-DEFINED VIEW

SEQUENCE OF EVENTS THAT HAPPEN WHEN USER TAPS A BUTTON AFTER VIEW HAS ALREADY SHIFTED. TO TOGGLE THE VIEW



THE VIEW IS ALREADY SHIFTED AWAY FROM AN ORIGINAL FOCUS OF INTEREST

USER TAPS (QUICKLY PRESSES AND RELEASES) A HARDWARE BUTTON THAT CORRESPONDS TO A PRE-DEFINED VIEW

THE VIEW SHIFTS BACK "UP"
TO THE ORIGINAL FOCUS OF
INTEREST

-1030

SIMPLE SEGMENTATION OF THE MOST ZOOMED OUT VIEW OF A DATA-SET

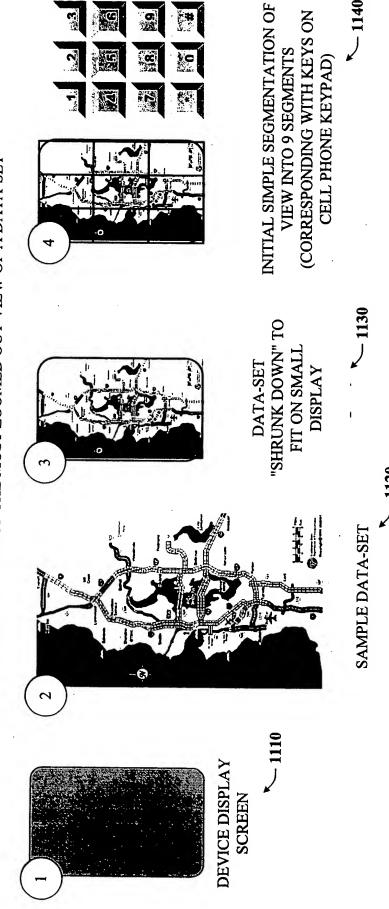
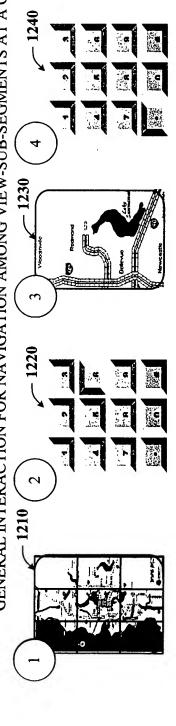


FIG. 11

1250



BACK OUT TO THE THE VIEW ZOOMS INITIAL VIEW

SEGMENTATION OF **INITIAL**

KEY ON KEYPAD OF PORTABLE DEVICE USER TAPS ON "6"

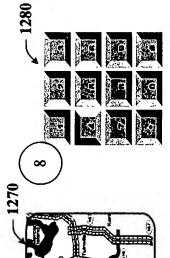
VIEW ZOOMS IN SEGMENT THAT CORRESPONDS TO JUST SHOW VIEW-SUB-TO KEY "6"

USER TAPS ON "*" **KEY WHICH IS** "ZOOM-OUT" MAPPED TO

> **一1260** Ċ

VIEW ZOOMS IN TO JUST SEGMENT "8"

USER TAPS ON "8"



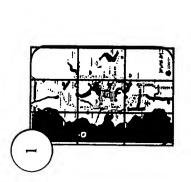
USER TAPS ON "4"



LEVEL BUT SHIFTS TO SHOW SEGMENT "4" **CURRENT ZOOM** VIEW STAYS AT

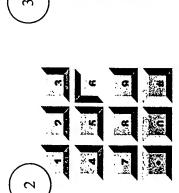


1300

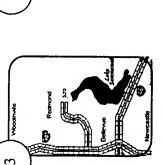


segmentation of view Initial

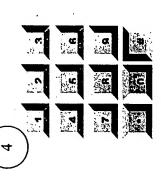
9



User taps on "6" key



View zooms into segment

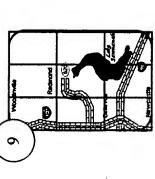


"#" key which corresponds to User taps on

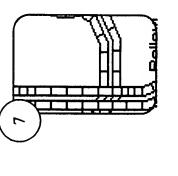
Current view is segmented into 9 sub-

segments

"zoom in"



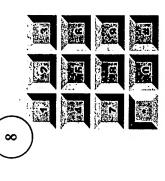
out one level zooms back The view



into new subsegment "4" View zooms

User taps on

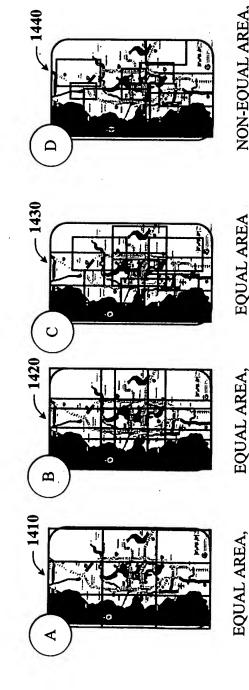
"4" key



"," key which User taps on is mapped to

"zoom-out"

DIFFERENT TYPES OF SEGMENTATION



NON-EQUAL AREA,
POSITIONED AND
SIZED TO MORE
CLOSELY
CORRESPOND WITH
HIGHEST DENSITY
AREAS OF DATA-SET

DENSITY AREAS

OF DATA-SET

WHEN ZOOMED IN)

CORRESPOND WITH HIGHEST

(ADJOINING AREAS

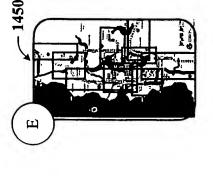
OVERLAPPING SEGMENTATION

NON-

OVERLAPPING SEGMENTATION

HAVE OVERLAP

POSITIONED TO

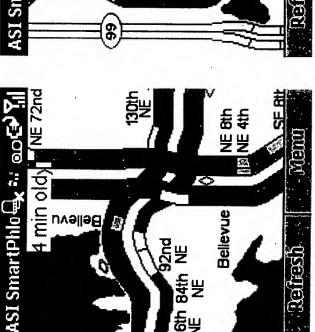


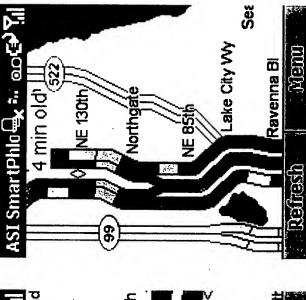
NON-EQUAL AREA,
AND ARBITRARY
ASPECT RATIO
REGIONS THAT
ADAPT TO
UNDERLYING DATA
AND USAGE

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-1530

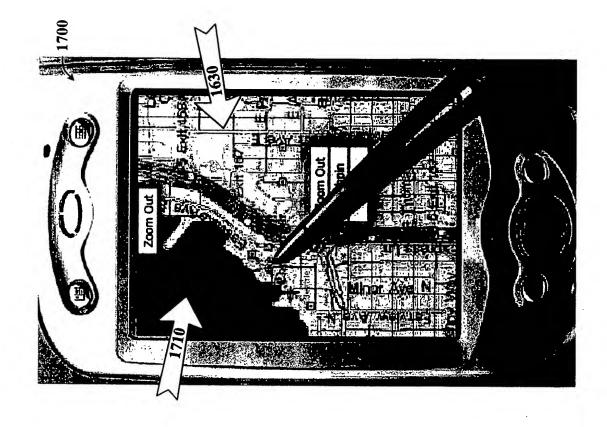


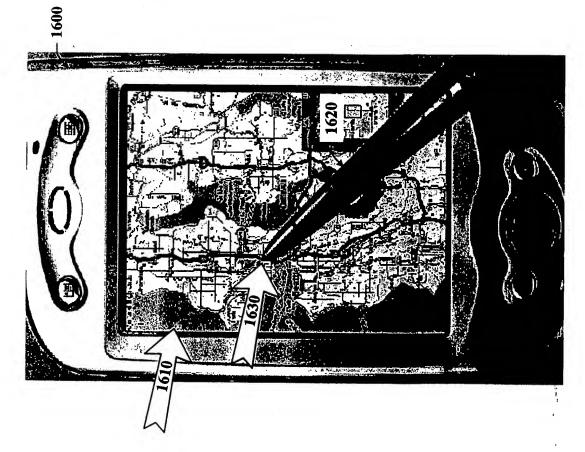


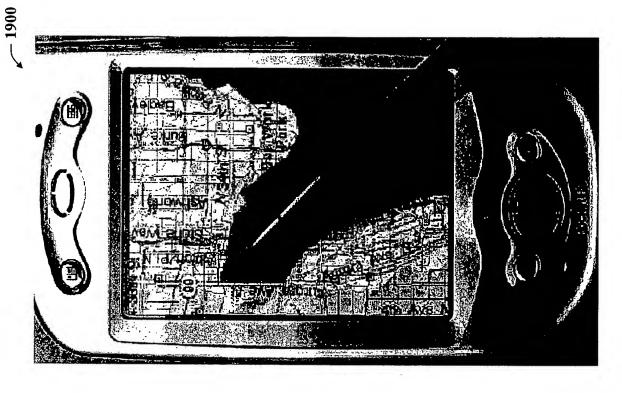
ZOOMED OUT VIEW OF THE TRAFFIC MAP

Menn

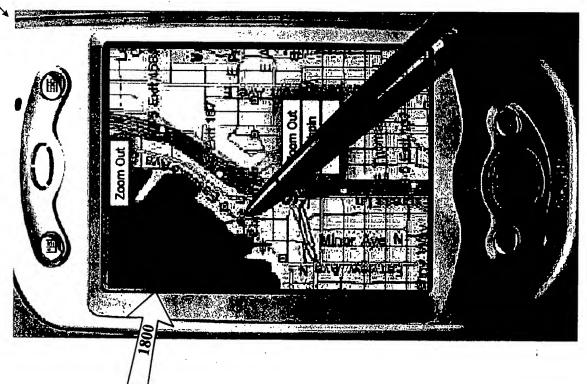
TWO DIFFERENT VIEW SECTORS (AT THE SAME ZOOM LEVEL)

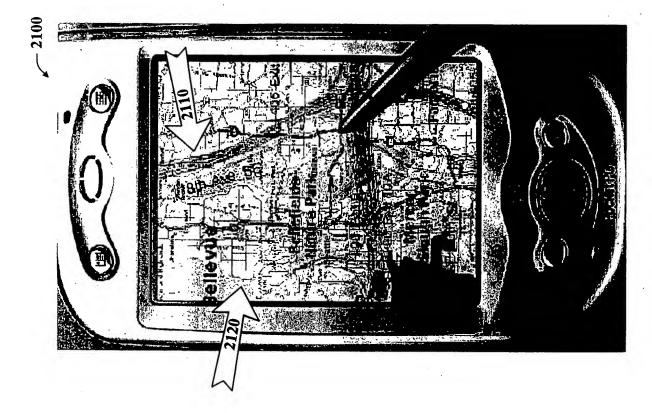


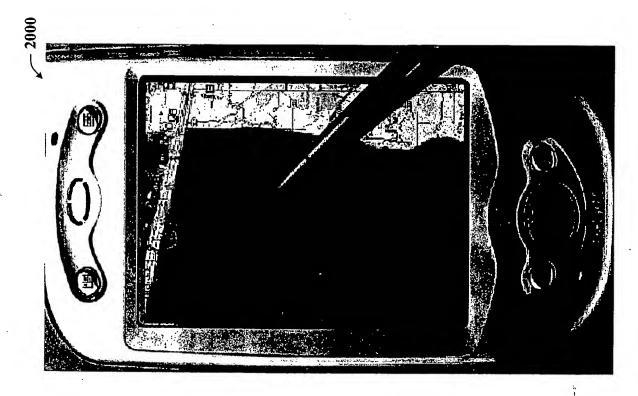


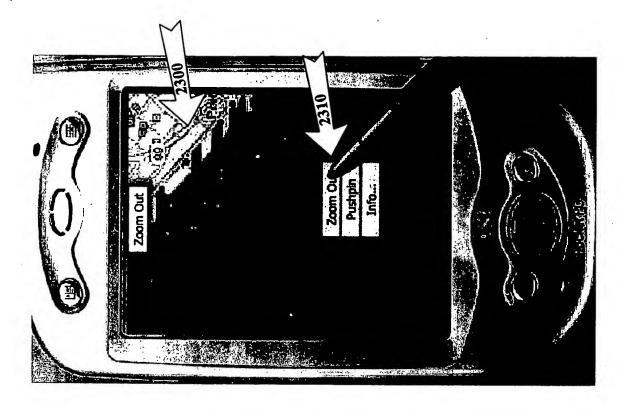


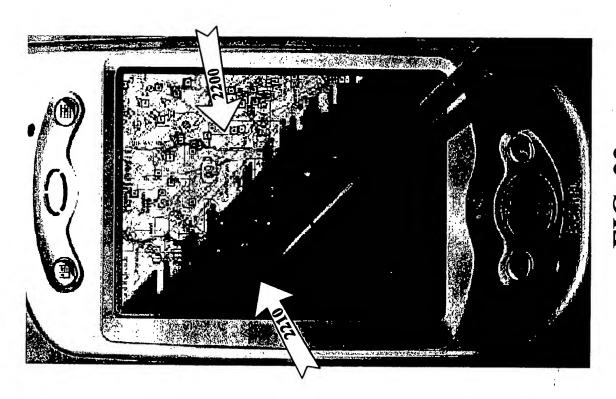


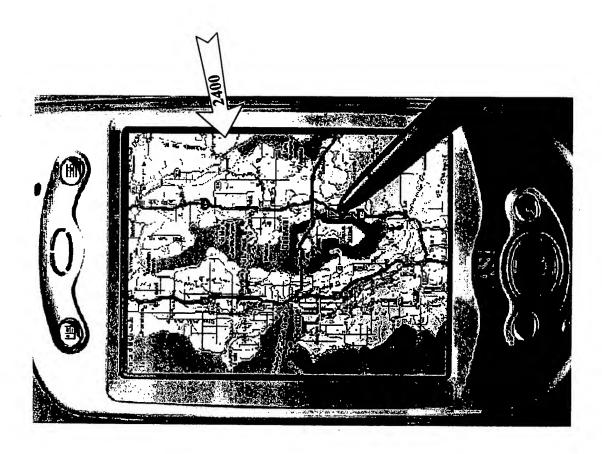


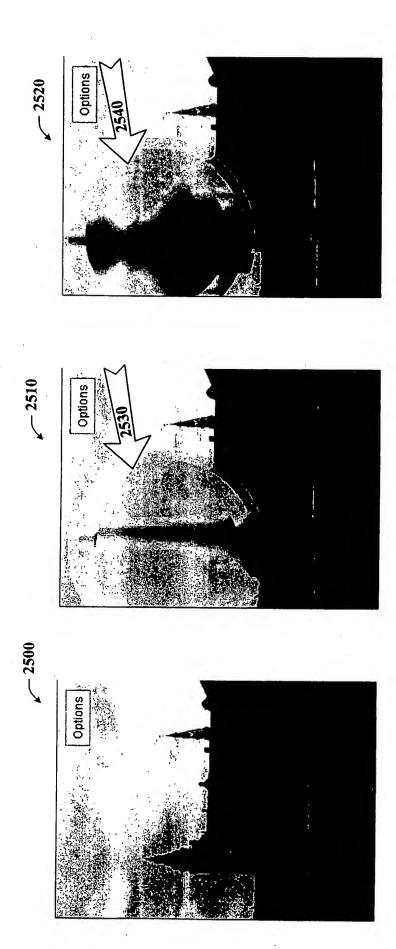










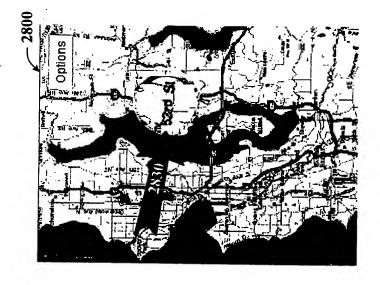


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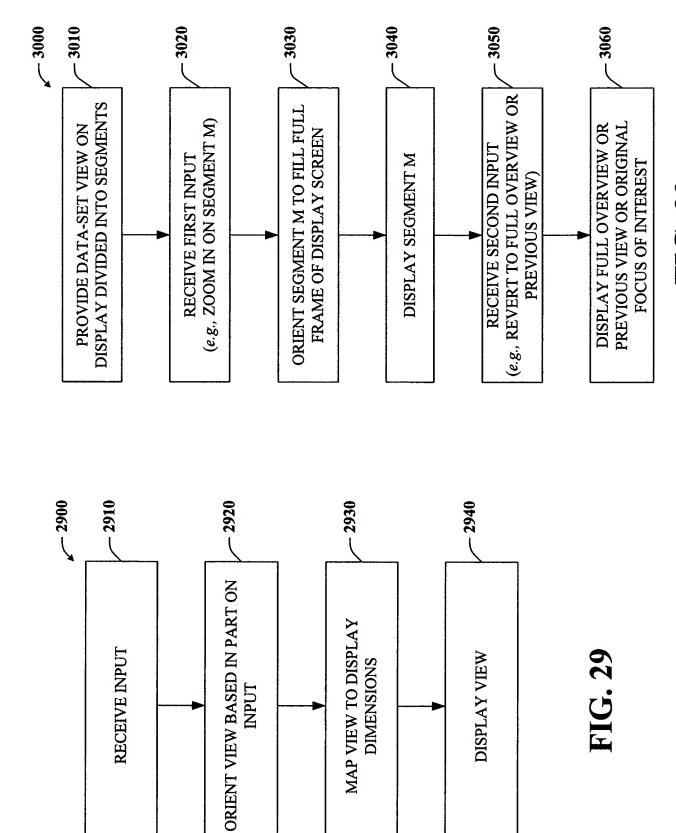


FIG. 30

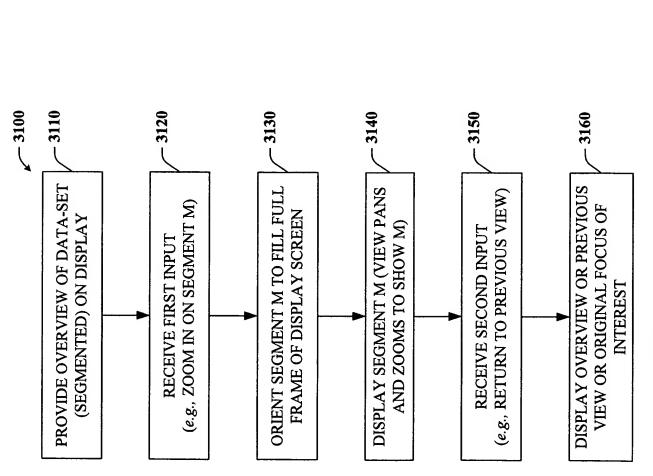


FIG. 31

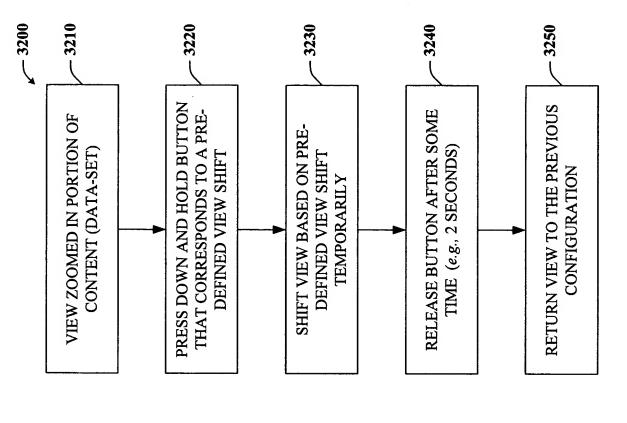


FIG. 32

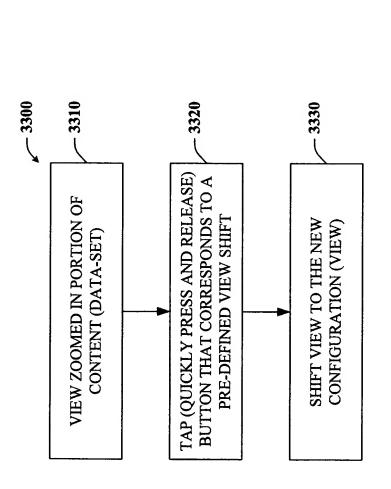


FIG. 33

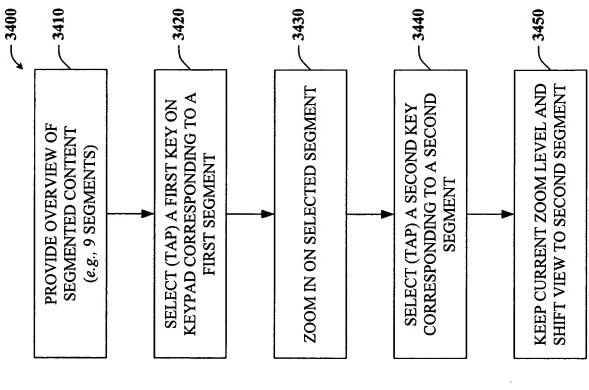


FIG. 34

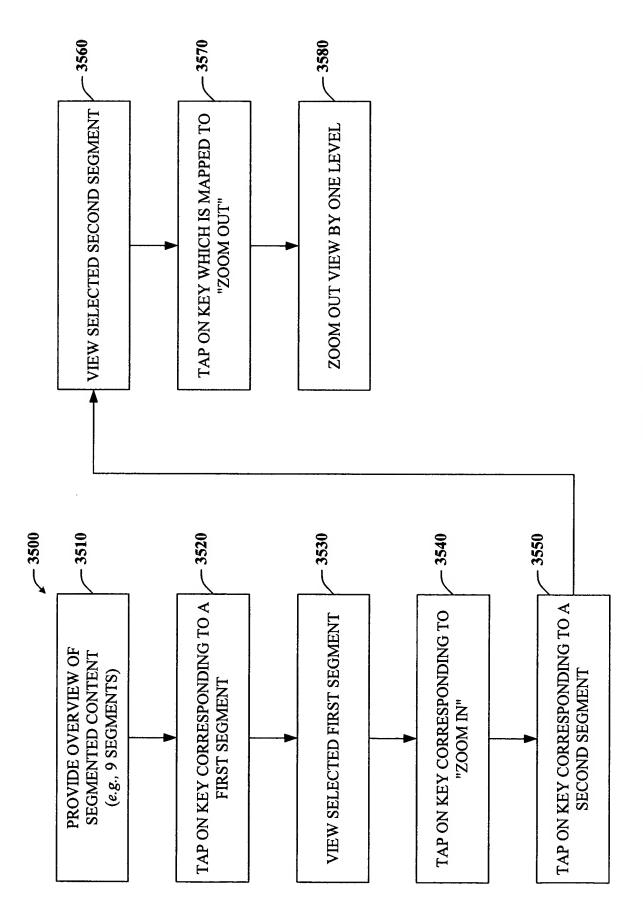


FIG. 35

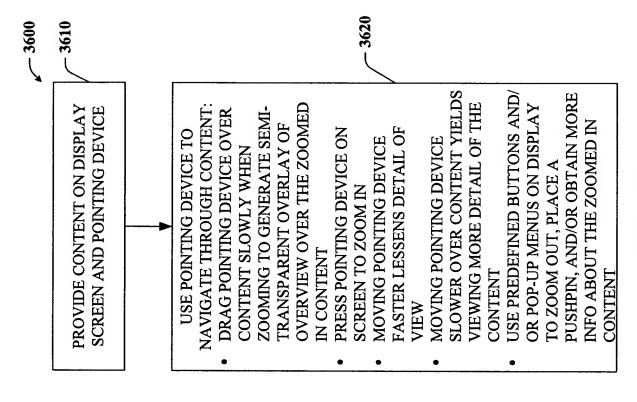


FIG. 36

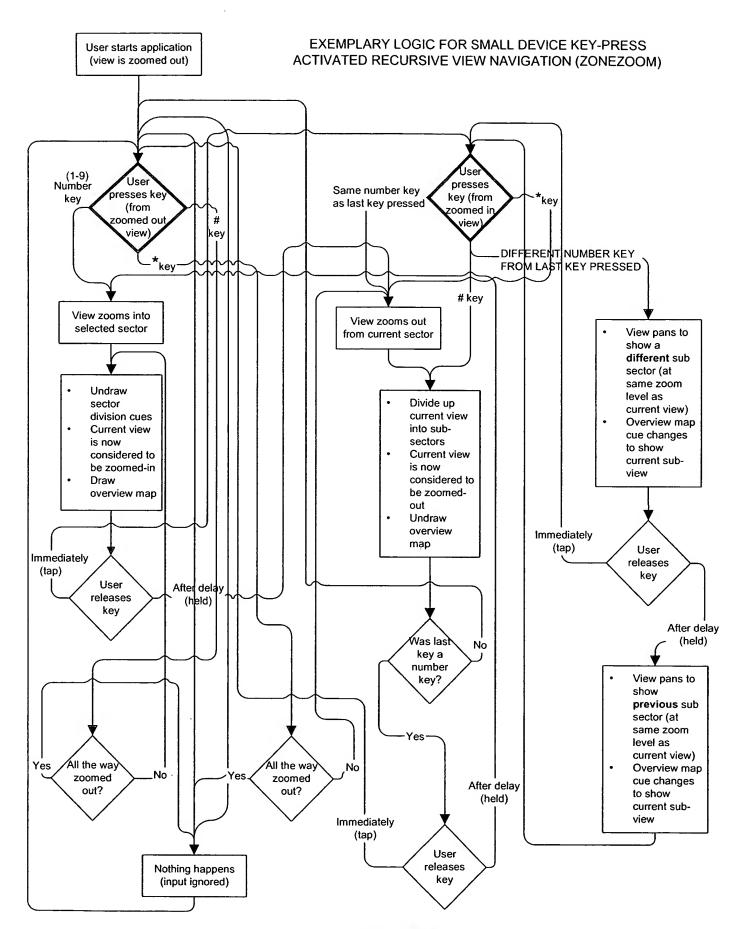


FIG. 37

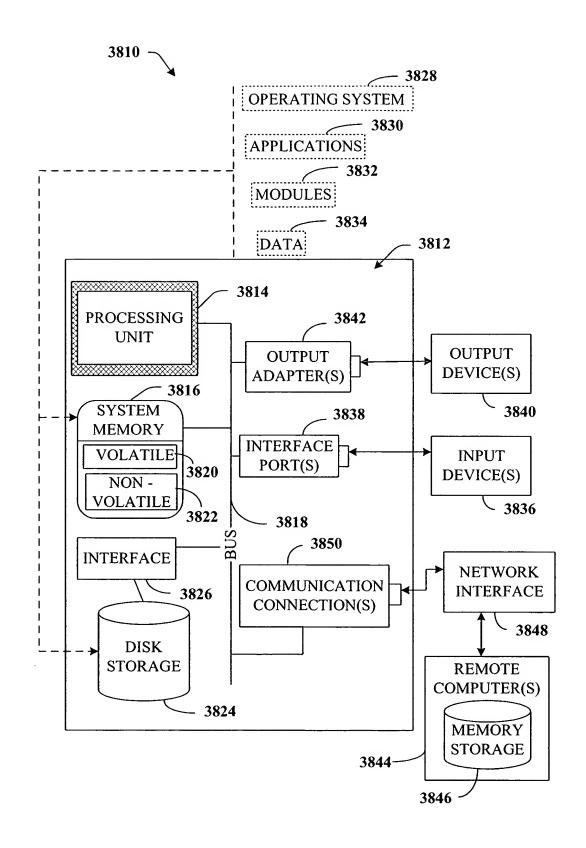


FIG. 38